

Applicant(s): Johannes Bruijns
Serial No.: 10/023,166
For: Method of analyzing a data set comprising a tubular structure
Filed: December 18, 2001
Examiner: Dang, Duy M
Group Art Unit: 2627

Attorney Docket No.: NL000772

IN THE SPECIFICATION:

Please amend the specification according to the following:

I. In the Abstract of the Specification:

- a. Please replace the previously submitted Abstract (of 1-23-06) with, on a separate sheet, the following:***

--The invention relates to a method and computer readable medium for analyzing an object data set that includes points in a multi-dimensional space and in which a tubular structure occurs. The method ~~including choosing a starting position in or near the tubular structure, deriving a cutting plane through the tubular structure at the starting position,~~ includes determining a number of points forming part of the surface of the tubular structure in the vicinity of ~~the starting~~ a selected position, and calculating a gradient to the surface for each of the points. The method further includes ~~determining for each point a vector from the center of the tubular structure to the point, determining the angle between the vector and the gradient at the point, adding the point to a selection of points if the angle is equal to or smaller than a predetermined ceiling value, using the selection of points to calculate an orientation for the a cutting plane such that the direction thereof is as parallel as possible to the longitudinal axis of the tubular structure at the starting selected position, and repeating the foregoing steps for a new starting position along the tubular structure as necessary.~~